Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Per.: \_\_\_\_\_\_\_\_

**Unit 3 Test: Triangles and Parallelograms**

Gamma: Thursday, February 4

What will the test look like?

1. Given a choice of three parallelogram theorems, prove one.
2. Given a proof of the following theorem, identify and correct the errors:

*A parallelogram is a rectangle if and only if its diagonals are congruent.*

1. Complete a problem set involving the properties of parallelograms, including rectangles.
2. Group Task: Working with your proof presentation groups, complete a task, which requires you to apply what you know about how to prove triangles congruent.
3. Individual portion of the task: Following the group task, you will complete an individual portion of the task similar to what you did in your group. This will require that you understand what your group completed.

How should I study?

1. You must know how to prove SOME parallelogram theorems.
2. You must know how to prove that the diagonals of a rectangle are congruent.
3. Practice solving problems involving parallelograms and rectangle properties, including those involving **quadratics**.
4. Review the various ways to prove triangles congruent (SSS, SAS, ASA, AAS, HL) and refresh your memory on CPCTC.
5. Lastly, the group task will involve collaboration and NOT GIVING UP. It may seem frustrating and different at first but you need to work together to solve and understand.

**Time will be critical. You will be allotted 45 minutes (subject to change) for the group and individual portions of the “task”, which means that you will have no more than 45 minutes for the first three parts of the assessment. If you do not study appropriately, you may run out of time. For example, if you have no idea how to prove that the diagonals of a rectangle are congruent and spend 30 minutes on that portion of the assessment, you will not finish.**